

I claim:

1. An integral moisture detector, audible alarm and message display card, comprising: a thin, rigid, non-conducting plastic board having upper and lower flat surfaces, each of said upper and lower surfaces having peripheral end edges, a first moisture detection conductor imprinted on said upper surface of said board around its entire periphery, a second moisture detection conductor imprinted on said upper surface of said board, said second moisture detection conductor being completely circumscribed by said first moisture detection conductor, said second moisture detection conductor being spaced inwardly away from said first moisture detection conductor in a direction away from said peripheral end edges of said upper surface, a third moisture detection conductor imprinted on said lower surface of said board around its entire periphery, a fourth moisture detection conductor imprinted on said lower surface of said board, said fourth moisture detection conductor being completely circumscribed by said third moisture detection conductor, said fourth moisture detection conductor being spaced inwardly away from said third moisture detection conductor in a direction away from said peripheral end edges of said lower surface, a first metallic connector extending through said board and electrically connecting said first and third moisture detection conductors, a second metallic connector extending through said board and electrically connecting said second and fourth moisture detection conductors, a housing on said upper surface of said board, said housing containing a circuit electrically connecting a battery, sound chip and speaker, conductors extending into said housing and being connected to opposite polarity terminals of said circuit so that moisture contacting said moisture detection conductors causes current to flow from said battery to said sound chip so as to activate

said speaker to produce audible sound, and there being a flat smooth unobstructed area of one of said surfaces of said board having a written message displayed thereon, said unobstructed area being surrounded by one of said moisture detecting conductors.

2, The integral moisture detector, audible alarm and message display card defined in claim 1, further comprising: said battery being removably held in a conducting sleeve in said housing, and a removable cap on said housing providing access to the interior of said housing for removal and replacement of said battery.

3. The integral moisture detector, audible alarm and message display card defined in claim 2, wherein said removable cap has a center hole and a portion of said speaker extends through said center hole above said housing.

4. The integral moisture detector, audible alarm and message display card defined in claim 1, wherein there is a pair of holes through said board and wherein said first metallic connector comprises a first of said holes that extends through both said first moisture detection conductor and said third moisture detection conductor, said first hole being coated with electrical conducting material that merges into both said first moisture detection conductor and said third moisture detection conductor so as to provide a direct electrical connection between said first moisture detection conductor and said third moisture detection conductor, and wherein said second metallic connector comprises a second of said holes that extends through both said second moisture detection conductor and said fourth moisture detection conductor, said second hole being coated with electrical conducting material that merges into both said second moisture detection conductor

and said fourth moisture detection conductor so as to provide a direct electrical connection between said second moisture detection conductor and said fourth moisture detection conductor.

5. The integral moisture detector, audible alarm and message display card defined in claim 1, wherein said moisture detection conductors have exposed surfaces that are coated with gold.

6. The integral moisture detector, audible alarm and message display card defined in claim 1, wherein said written message is displayed on a label that is bonded to one of said flat, smooth, unobstructed areas.

7. An integral water leak detector, audible alarm and message display card, comprising: a thin, rigid, non-conducting solid plastic board having upper and lower flat surfaces, each of said upper and lower surfaces having peripheral end edges, a first water leak detection conductor strip imprinted on said upper surface of said board around its entire periphery, a second water leak detection conductor strip imprinted on said upper surface of said board, said second water leak detection conductor strip being completely circumscribed by said first water leak detection conductor strip, said second water leak detection conductor strip being spaced inwardly away from said first water leak detection conductor strip away from said peripheral end edges of said upper surface, a third water leak detection conductor strip imprinted on said lower surface of said board around its entire periphery, a fourth water leak detection conductor strip imprinted on said lower surface of said board, said fourth water leak detection conductor strip being completely circumscribed by said third water leak detection conductor, said fourth water leak detection conductor strip being spaced inwardly away from said third water leak detection conductor strip away from said peripheral end edges of said lower surface, an electric circuit on said board including an electrically

connected battery, sound chip and speaker, metallic conductors connected to opposite polarity terminals of said circuit and connecting said water leak detection conductor strips so that water contacting said water leak detection conductor strips causes current to flow from said battery to said sound chip so as to activate said speaker to produce audible sound, and there being a flat smooth unobstructed area of said upper surface of said board having a written message displayed thereon, said unobstructed area of said upper surface of said board being surrounded by said second water leak detection conductor strip, and there being a flat smooth unobstructed area of said lower surface of said board having a written message displayed thereon, said unobstructed area of said lower surface of said board being surrounded by said fourth water leak detection conductor strip.

8. The integral water leak detector, audible alarm and message display card defined in claim 7, further comprising: a housing on said upper surface of said board, said battery being removably held in a conducting sleeve in said housing, and a removable cap on said housing providing access to the interior of said housing for removal and replacement of said battery.

9. The integral water leak detector, audible alarm and message display card defined in claim 8, wherein said removable cap of said housing has a center hole and a portion of said speaker extends through said center hole above said housing.

10. The integral water leak detector, audible alarm and message display card defined in claim 7, wherein there is a pair of holes through said board, a first of said holes extends through both said first water leak detection conductor strip and said third water leak detection conductor strip, said first hole being coated with electrical conducting material that merges into both said first water leak detection conductor strip and said third water leak detection

conductor strip so as to provide a direct electrical connection between said first water leak detection conductor strip and said third water leak detection conductor strip, a second of said holes extends through both said second water leak detection conductor strip and said fourth water leak detection conductor strip, said second hole being coated with electrical conducting material that merges into both said second water leak detection conductor strip and said fourth water leak detection conductor strip so as to provide a direct electrical connection between said second water leak detection conductor strip and said fourth water leak detection conductor strip.

11. The integral water leak detector, audible alarm and message display card defined in claim 7, wherein said water leak detection conductor strips have exposed surfaces coated with gold.

12. The integral water leak detector, audible alarm and message display card defined in claim 7, wherein said written message is displayed on a label that is bonded to one of said flat, smooth, unobstructed areas.

13. The integral water leak detector, audible alarm and message display card defined in claim 7, further comprising: a plastic housing on said upper surface of said board, said battery being removable held in a conducting sleeve in said housing, a removable plastic cap on said housing providing access to the interior of said housing for removal and replacement of said battery, said removable cap having a center hole and a portion of said speaker extends through said center hole above said housing, there being a pair of holes through said board, rivets passing through each of said holes into said housing so as to hold said housing on said upper surface of said board, an upper end of each of said rivets

being electrically connected to one of said terminals of said circuit within said housing, and said written message being displayed on a label that is bonded to one of said flat, smooth, unobstructed areas.

14. An integral, portable water leak detector and audible alarm, comprising: a thin, rigid, non-conducting plastic card having upper and lower flat surfaces, each of said upper and lower surfaces having peripheral end edges, a first water leak detection conductor strip imprinted on said upper surface of said card around its entire periphery, a second water leak detection conductor strip imprinted on said upper surface of said card, said second water leak detection conductor strip being completely circumscribed by said first water leak detection conductor strip, said second water leak detection conductor strip being spaced inwardly away from said first water leak detection conductor strip in a direction away from said peripheral end edges of said upper surface, a third water leak detection conductor strip imprinted on said lower surface of said card around its entire periphery, a fourth water leak detection conductor strip imprinted on said lower surface of said board, said fourth water leak detection conductor strip being completely circumscribed by said third water leak detection conductor strip, said fourth water leak detection conductor strip being spaced inwardly away from said third water leak detection conductor strip in a direction away from said peripheral end edges of said lower surface, a first metallic connector extending through said card and electrically connecting said first and third water leak detection conductor strips, a second metallic connector extending through said card and electrically connecting said second and fourth water leak detection conductor strips, a housing on said upper surface of said board, said housing containing a circuit electrically connecting a battery, sound chip and speaker, metal fasteners contacting said first and second metallic connectors and extending into said

housing and being connected to opposite polarity terminals of said circuit so that water leak contacting said water leak detection conductor strips cause current to flow from said battery to said sound chip so as to activate said speaker to produce audible sound.

15. The integral, portable water leak detector and audible alarm defined in claim 14, further comprising: said battery being removably held in a conducting sleeve in said housing, and a removable cap on said housing providing access to the interior of said housing for removal and replacement of said battery.

16. The integral, portable water leak detector and audible alarm defined in claim 15, wherein said removable cap has a center hole and a portion of said speaker extends through said center hole above said housing.

17. The integral, portable water leak detector and audible alarm defined in claim 14, wherein there is a pair of holes through said card and wherein said first metallic connector comprises a first of said holes that extends through both said first water leak detection conductor strip and said third water leak detection conductor strip, said first hole being coated with electrical conducting material that merges into both said first water leak detection conductor strip and said third water leak detection conductor strip so as to provide a direct electrical connection between said first water leak detection conductor strip and said third water leak detection conductor strip, and wherein said second metallic connector comprises a second of said holes that extends through both said second water leak detection conductor strip and said fourth water leak detection conductor strip, said second hole being coated with electrical conducting material that merges into both said second water leak detection conductor strip and said fourth water leak detection conductor strip so as to provide a direct

electrical connection between said second water leak detection conductor strip and said fourth water leak detection conductor strip.

18. The integral, portable water leak detector and audible alarm defined in claim 14, wherein all of said water leak detection conductor strips and said first and second metallic connectors have exposed surfaces coated with gold.

19. The integral, portable water leak detector and audible alarm defined in claim 14, further comprising: said battery being removably held in a conducting sleeve in said housing, a removable cap on said housing providing access to the interior of said housing for removal and replacement of said battery, said removable cap having a center hole and a portion of said speaker extends through said center hole above said housing, there being a pair of holes through said card, said metal fasteners comprising rivets that pass through each of said holes into said housing so as to hold said housing on said upper surface of said card, and an upper end of each of said rivets being electrically connected to one of said terminals of said circuit within said housing.

20. The integral, portable water leak detector and audible alarm defined in claim 14, further comprising: a flat smooth unobstructed area of one of said surfaces of said card having a written message displayed thereon, said unobstructed area being enclosed within one of said water leak detecting conductor strips.